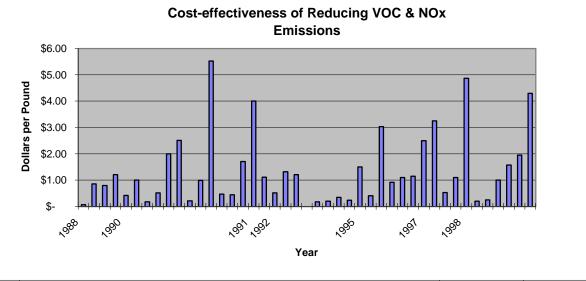
VOC and NOx Regulations

				st-	Cost-	
			effectiveness			
Year	Regulation		aver		effectiveness	Tons/Day
1988	Motor Vehicle Recall		\$	0.06		3
1989	Antiperspirants and deodorants		\$	0.85		4
	OBD II		\$	0.79		118
	Exhaust emission		\$	1.20		70
1990	Exhaust emission form light-, medium and light heavy duty engines		\$	0.41		4.4
	Consumer products		\$	1.00		3
	Evaporative emission at 105		\$	0.17		114
	Evaporative emission at 75		\$	0.51		35
	Phase I reformulated gasoline		\$	2.00		80
	Low-emission vehicles and clean fuels		\$	2.51		185
	1994 standards four 4-stroke engines		\$	0.21		29
	1994 standards for 2 stroke engines less than 50 cc		\$	0.98		29
	1999 standards for 4-stroke engines		\$	5.52		29
	1999 standards for 2-stroke engines		\$	0.46		29
	Smoke emissions from heavy-duty diesel engines		\$	0.44		22
	Consumer products		\$	1.70		45
1991	Reformulated gasoline (phase II)		\$	4.00		220
	OBD II		\$	1.11		
1992	Phase II consumer products		\$	0.51		8
	Engines converted to non-gasoline fuels		\$	1.32		30 lbs./ca
	Exhaust emissions		\$	1.20		6
1994	Small refiner volume provisions		N/A			-3
	Evaporative emissions for heavy-duty diesel engines and vehicles		\$	0.17		4
	Off-highway recreation vehicles		\$	0.19		30
	Golf carts		\$	0.34		9
	Vehicles with engines less than 25 horsepower		\$	0.23		1
1995	Accelerated introduction of medium-duty ultra-low emission vehicles		\$	1.50		4
	On-Board refueling vapor recovery		\$	0.40		
	Aerosol coating (paint) products		\$	3.03		3 to 18
1996	Low-emission vehicle - TLEV ROG		\$	0.91		
	Low-emission vehicle - LEV ROG		\$	1.10		
	Low-emission vehicle - ULEV ROG		\$	1.15		
1997	Hair spray VOC		\$	2.50		-14
	Consumer products			\$3.25	\$0-6.3	15.3
	New certification tests to control emitions from aggressive driving & A/C usage			\$0.52	\$0.44 -0.60	133
	Heavy-duty vehicle inspection			\$1.09	\$1.05 - 1.12	22 - 24
1998	Small off-road engine HC + NOx		\$	4.87	\$0.11 - \$9.63	23.8
	Heavy-duty vehicle NOx+NMH0	C	\$	0.20	\$ 0.20	98
	Off-road large spark-ignition engines HC+NOx		\$	0.24	\$0.01 - \$3.79	60
	LEV II and CAP 2000 ROG+NOx		\$	1.00	\$0.5 - \$1.39	57
	Aerosol coating, antiperspirants, deodorants, & consumer products VOC		\$	1.57	\$1.00 - \$3.00	5.4
	Marine engine HC+NOx		\$	1.95	\$0.32 - \$3.57	110
	On-road motorcycles HC+NOx		\$	4.30	\$3.00 - \$5.60	1.3



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